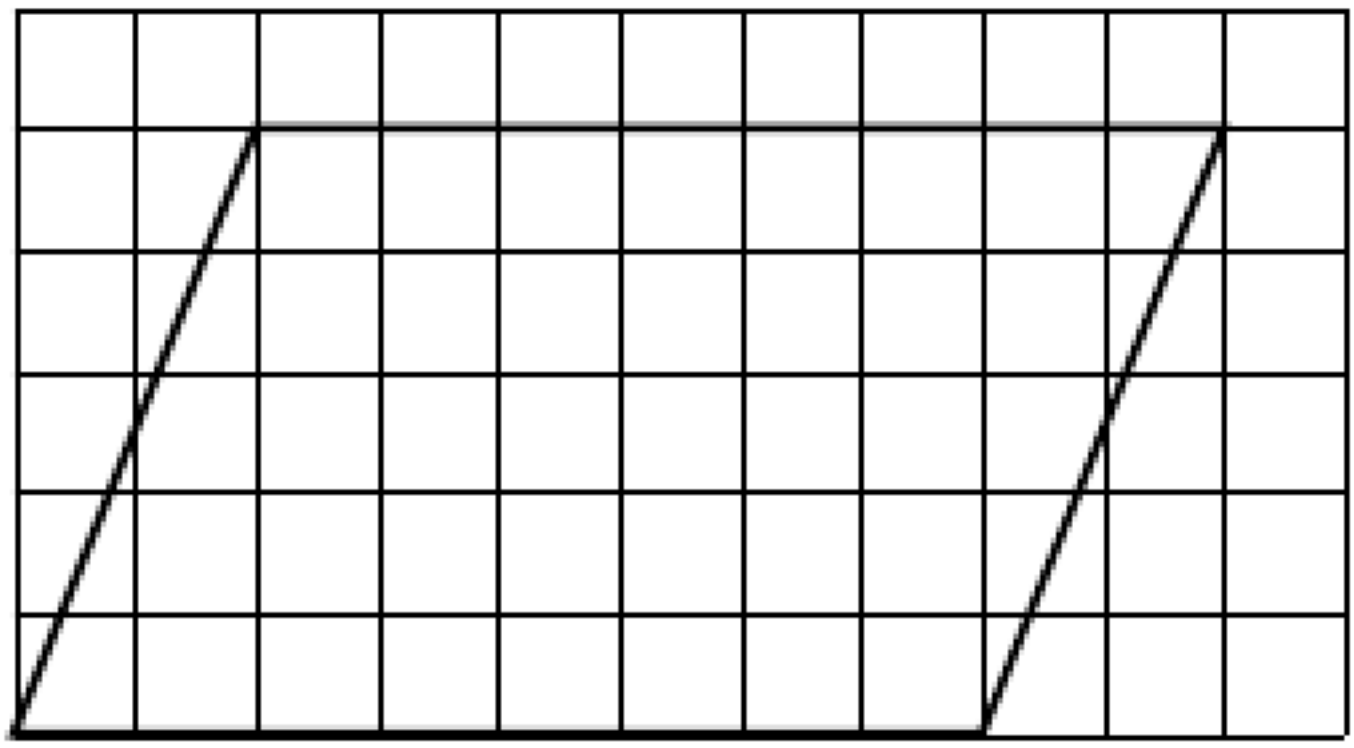
Topic: Area of a parallelogram

Question: What is the area of the parallelogram drawn on the grid?

Assume that the lines in the grid are 1 cm apart.



Answer choices:

A 26 cm^2

B 32 cm^2

C 38 cm^2

D 40 cm^2

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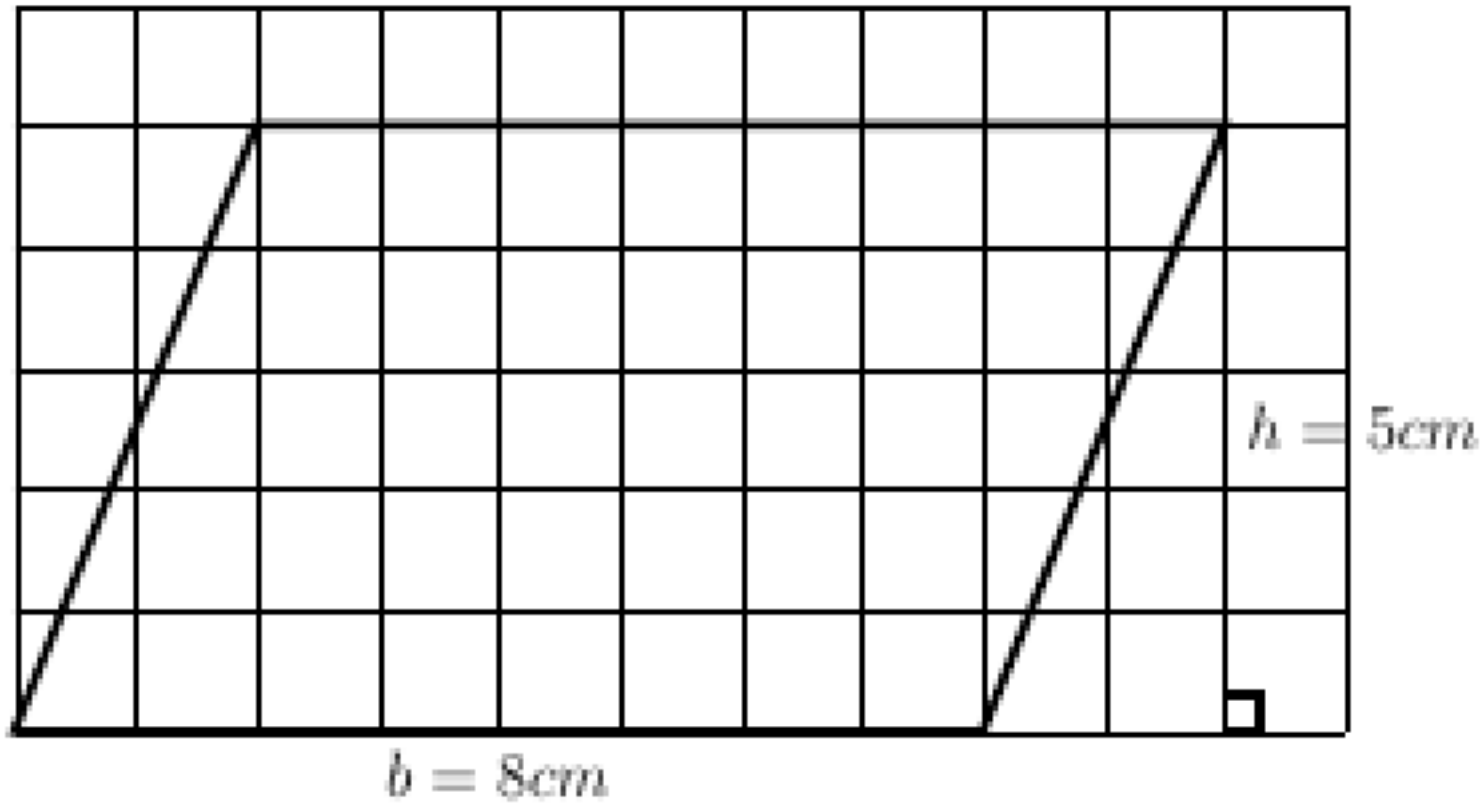
Solution: D

Applying the dimensions from the figure



to the area formula, we get

$$A = bh$$

$$8 \text{ cm} \cdot 5 \text{ cm}$$

$$40 \text{ cm}^2$$

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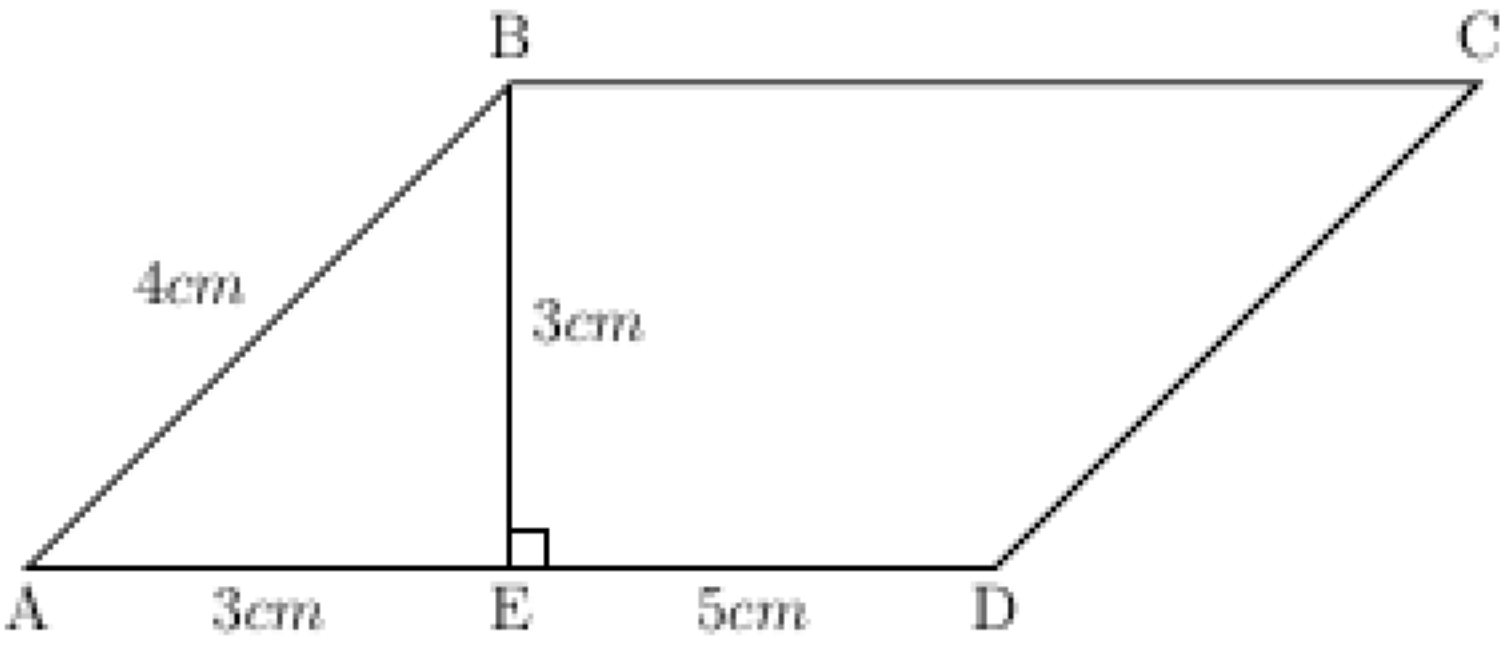
Topic: Area of a parallelogram

Question: What is the area of the parallelogram?



Answer choices:

A $9\ \text{cm}^2$

B $12\ \text{cm}^2$

C $24\ \text{cm}^2$

D $35\ \text{cm}^2$

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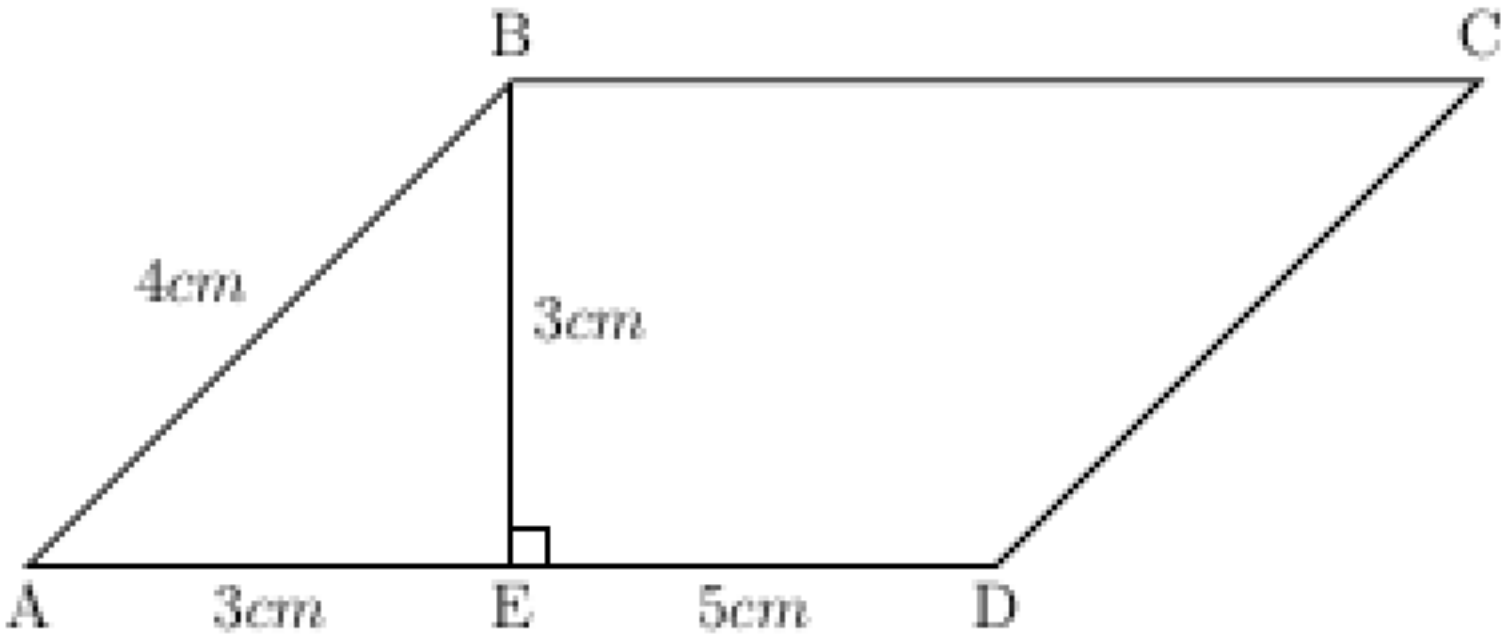
Solution: C

Applying the dimensions from the figure



to the area formula, we get

$$A = bh$$

$$8 \text{ cm} \cdot 3 \text{ cm}$$

$$24 \text{ cm}^2$$

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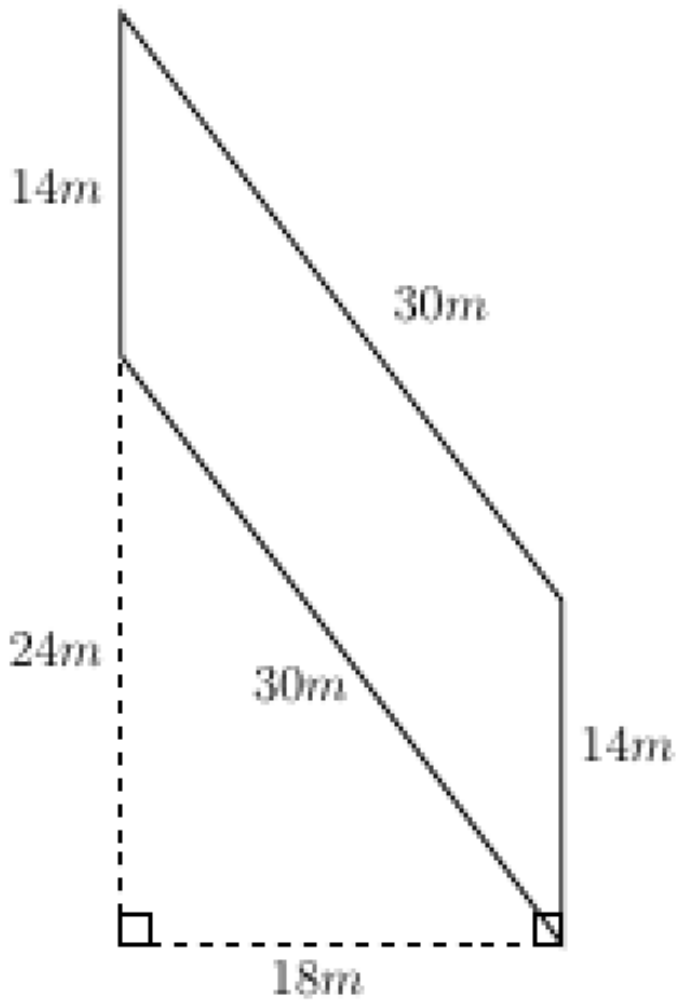
Topic: Area of a parallelogram

Question: What is the area of the parallelogram shown?



Answer choices:

A $252\ m^2$

B $420\ m^2$

C $432\ m^2$

D $720\ m^2$

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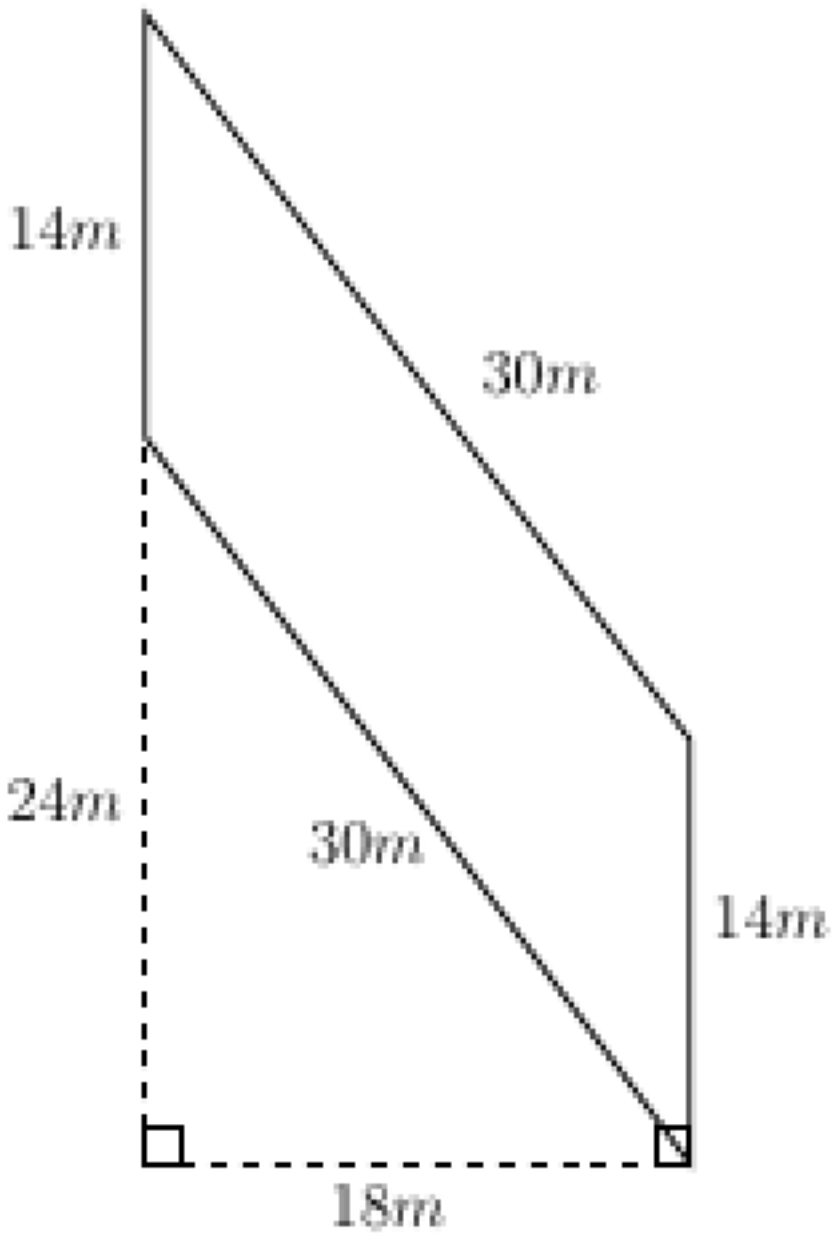
Solution: A

Imagine rotating the parallelogram until the 14 m side is the base.



From that base, the height to the opposite 14 m side is 18 m.

$$A = bh$$

$$14 \text{ m} \cdot 18 \text{ m}$$

$$252 \text{ m}^2$$

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